## ISSUE SLIP STAPLE AREA (for additional cross references)

## INDEX OF CLAIMS

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
|   | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

| Clain         | n Date |          |  |                |          |  |  |          | C        | Claim Date |          |          |          |          |          |          | ]        | Claim Date |          |          |          |          |    |              |          |  |          |          |           |          |          |           |  |          |
|---------------|--------|----------|--|----------------|----------|--|--|----------|----------|------------|----------|----------|----------|----------|----------|----------|----------|------------|----------|----------|----------|----------|----|--------------|----------|--|----------|----------|-----------|----------|----------|-----------|--|----------|
| Final         |        | တ        | _  | {              |          |  |  |          |          |            | $\neg$   |          | T        |          |          |          | $\neg$   | $\neg$     |          | T        | T        | Т        | 1  |              |          |  |          |          | T         | $\neg$   | T        | $\top$    | T  | ㅓ        |
| -   £         | ĭ.k    | D        | ſ.   | l              |          |  | l  |          |          |            | 1        | -        | Original |          |          |          |          |            |          |          | - 1      |          | 1  | -            | Original |  |          | 1        | ŀ         | I        | ĺ        | ı         | J  | ı        |
| وُ اعْنِ ا    | ?!     | 2        |  |                |          |  |  | 1        |          |            | -        | i        | Ę        |          |          |          |          | -          |          | -        |          |          |    | Final        | Ę        |  |          |          | - 1       |          |          | 1         | - 1  |          |
| 1             | ┧      | 7        | -  | ⊢              | Н        |  | H  | Н        |          | $\dashv$   | $\dashv$ | - ا      | 51       | $\vdash$ | -        | $\dashv$ | $\dashv$ | -          | -        | $\dashv$ | -+       |          | -  | <del>-</del> |          | +                                      | Н        |          | -         | $\dashv$ | -        | +         | 4  | _        |
| 14            | 4      | 4        |  | <del> </del> - | -        | <u> </u>   | _  | Н        |          |            |          | -        | 52       | $\vdash$ | $\dashv$ | _        | $\dashv$ | $\dashv$   |          |          | -        |          | -  | <b>—</b>     | 101      |  | Н        | _        | _         |          |          | 4         | 4  |          |
|               | 2      | V,       |  | L              | Щ        | _  |  | Ш        | $\Box$   | Ц          | _        | _        |          |          |          | _        | _        | 1          |          | _        | _        |          | 1  | L            | 102      | <u> </u>                               | Ш        |          | _         |          | _        |           | _1   |          |
|               | 3      | 1        |  | L              |          |  |  | <u> </u> |          |            |          | L        | 53       |          |          |          | _        |            |          |          |          |          |    | L.           | 103      |  |          |          |           | ١        | 1        | - {       | Т  |          |
|               | 4      | ~        |  |                |          |  |  |          |          |            |          |          | 54       |          |          |          |          |            |          |          |          |          |    |              | 104      |  |          |          |           |          | ╗        | $\neg$    | 7  | _        |
|               | 5      | ζ        |  |                |          |  |  |          |          |            |          |          | 55       |          |          |          |          |            | $\neg$   |          |          |          | 1  |              | 105      |  |          |          | П         | $\neg$   | ٦        | П         | $\neg$   | _        |
|               | 6      | 1        |  |                |          |  | Г  |          |          |            | $\neg$   |          | 56       |          |          |          | П        |            |          | $\neg$   |          |          | 1  |              | 106      | T                                      |          |          | $\neg$    |          | ヿ        | ╗         | ┪  | _        |
| $\Box$        | 7      | 7        |  |                | Г        | $\vdash$   | Г  | П        | П        | П          |          |          | 57       | П        |          | ヿ        | ヿ        | T          | $\neg$   | $\neg$   | 寸        | $\neg$   | 1  |              | 107      | т                                      | П        |          | $\neg$    |          |          | $\dashv$  | 十  | _        |
|               | 8      | -        | _  | -              | -        | ┢  | $\vdash$   | Н        | Н        | Н          | $\dashv$ |          | 58       | Н        |          | 一        | $\dashv$ | 一          | ┪        | _        | 寸        | +        | 1  |              | 108      | +                                      |          | -        | $\dashv$  | $\dashv$ | -        | -         | 十  | _        |
|               | 9      | -        | -  | -              | H        | H  | ┢  | Н        | Н        | Н          | -        | ⊢        | 59       | Н        | -        | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$ | H        | $\dashv$ | +        | ┥  | $\vdash$     | 109      | +                                      | Н        | $\dashv$ | -         |          | $\dashv$ |           | +  |          |
| $\rightarrow$ | _      | _        | -  |                | H        | $\vdash$   | ⊢  | Н        | Н        | $\vdash$   | $\dashv$ | ⊢        | 60       | -        |          | $\dashv$ | $\dashv$ |            | $\dashv$ | $\dashv$ | $\dashv$ | -        | -{ | $\vdash$     | 110      | ╀                                      | Н        |          | -         |          |          | -         | $\dashv$   |          |
|               | 0      |          | <u> </u>   | -              | -        | <u> </u>   | <del> </del>                                     | Н        | Ш        |            | -        | -        | 61       |          | -        | $\dashv$ |          | -1         |          |          | -        |          | -  | -            |          | ┼                                      | -        |          |           | _        | _        |           | -  |          |
|               | 1      | _        | _  | _              | Щ        | _  | _  | Ш        | ш        |            |          | ļ        |          | -        | _        | _        |          | _          | _        |          | -        |          | 4  | <u></u>      | 111      | ļ.,                                    |          | Ш        | _         | _        | $\Box$   | _         | _  |          |
|               | 2      | _        | <u> </u>   | L_             |          | <u> </u>   | _  | Ш        | Ш        | Ш          | _        | $\perp$  | 62       | Ш        | Ш        |          |          |            | _        |          | _        | $\bot$   | 1  | <u></u>      | 112      | 1                                      | Ш        | Ш        |           |          |          |           |  |          |
|               | 3      |          |  |                |          | L  |  |          |          |            |          | L        | 63       | $\sqcup$ |          |          |          | 1          |          |          |          |          |    |              | 113      |  | $\Box$   |          |           |          |          |           |  |          |
| 1             | 4      |          |  |                |          |  |  |          |          |            |          | [        | 64       |          |          | T        | 1        | T          | T        |          | T        |          |    |              | 114      |  |          |          |           |          |          | 1         |  |          |
| 1             |        |          |  |                |          |  |  |          |          |            |          |          | 65       | П        |          |          | T        | $\neg$     |          | ヿ        |          | $\neg$   | 1  | Г            | 115      | 1                                      | П        |          |           |          |          | $\neg$    | $\neg$   | _        |
| 1             |        |          | _  |                | Γ-       |  | Г  | П        | М        | $\Box$     | $\neg$   |          | 66       | П        | $\neg$   |          |          | $\neg$     | $\neg$   | $\dashv$ | $\neg$   | $\neg$   | 1  |              | 116      |  | П        | М        |           |          |          | _         | $\neg$   | _        |
| 1             |        | H        | _  | _              |          | <b></b> -  | Ι  | Н        | Н        | H          | $\dashv$ | $\vdash$ | 67       | H        |          | $\dashv$ |          | $\dashv$   |          |          |          | +        | 1  | <u></u>      | 117      | +                                      | $\vdash$ |          | Н         |          | М        | $\dashv$  | М  |          |
| 1             |        | -        | -  | -              | $\vdash$ | <del>                                     </del> | <del>                                     </del> | Н        | Н        | $\vdash$   | $\dashv$ | $\vdash$ | 68       | Н        | $\vdash$ |          |          | -          |          | $\dashv$ | $\dashv$ | $\dashv$ | 1  | $\vdash$     | 118      | +                                      | Н        | Н        | Н         | $\dashv$ | Н        | $\dashv$  | Н  | _        |
| $\rightarrow$ | _      | $\dashv$ | $\vdash$   | $\vdash$       | $\vdash$ | $\vdash$   | $\vdash$   | Н        | Н        | $\vdash$   | $\dashv$ | -        | 69       | Н        |          |          | -1       |            |          |          | $\dashv$ | +        | -  | $\vdash$     | 119      | +                                      | Н        | Н        | $\vdash$  | $\dashv$ | $\vdash$ | $\dashv$  | Н  |          |
|               | 9      |          | <u> </u>   | ⊢              | $\vdash$ | <u> </u>   | ļ.,  | Ш        | Щ        | Н          |          | $\vdash$ |          | Н        |          | -        | _        | -          | _        | -        |          |          | -  | $\vdash$     |          | ₩                                      | Н        | Ш        |           |          |          | 4         | ш  | $\vdash$ |
| · 2           |        |          | L  |                |          |  | L  |          |          |            |          | L        | 70       |          |          | -        |          |            |          | l        |          |          | J  |              | 120      |  |          |          |           |          |          |           |  | L        |
| 2             | 1      | -        |  |                | -        | l .  | Γ  |          |          |            |          |          | 71       |          |          |          |          |            |          |          |          |          | 1  |              | 121      |  |          |          |           |          |          |           |  |          |
| 2             | 2      |          |  |                |          |  |  |          |          |            |          |          | 72       |          |          |          |          |            |          | $\neg$   |          |          | 7  |              | 122      | T                                      |          |          |           |          |          |           | П  | Γ        |
| 2             | 3      | _        | _  |                | _        | _  | 1  |          |          |            |          |          | 73       | П        |          |          |          | 一          |          | ヿ        | T        |          | 1  |              | 123      | Т                                      | Т        |          |           |          | _        | $\neg$    | $\neg$   | Г        |
| 1 2           | 4      | _        |  | $\vdash$       | $\vdash$ | Ι  | ऻ  | 1        | -        |            | _        |          | 74       | П        |          | _        | $\neg$   | 寸          | $\neg$   | _        | $\dashv$ |          | 1  |              | 124      | 1                                      | П        |          |           |          |          | $\neg$    | П  | Г        |
|               | 5      |          |  | -              | -        |  | -  |          | -        | Н          | -        | _  -     | 75       |          | -        |          |          | $\dashv$   | -        | $\dashv$ | -        |          | 1  | -            | 125      | ╁┄                                     | Н        | -        | -         | -        | -        | -         | Н  | Т        |
| 2             | ٥      | $\dashv$ | -  | -              | $\vdash$ | ⊢  | ├  | -        | -        |            |          | $\vdash$ | 76       | H        |          | $\dashv$ | $\dashv$ | -          | -        | $\dashv$ | $\dashv$ | +        | ┨  | $\vdash$     | -        | ┿                                      | -        |          | -         |          | H        | $\dashv$  | $\vdash$   | -        |
|               |        | _        |  | -              | _        |  | -  | -        |          | $\vdash$   |          | $\vdash$ | _        | H        | $\dashv$ | $\dashv$ | $\vdash$ | -          | $\dashv$ | $\dashv$ | $\dashv$ | +        | -  | $\vdash$     | 126      | ┼                                      | -        | -        |           |          | _        | $\dashv$  | $\vdash$   | -        |
| 2             |        | _        | <u> </u>   | _              |          | _  | <u> </u>   |          | ш        | Ш          | _        | L        | 77       | ļ.,      |          |          |          |            |          |          |          |          | 4  | _            | 127      | ↓_                                     | Ш        |          |           |          | _        |           |  | -        |
| 2             |        |          | <u> </u>   | ╙              |          |  | ╙  |          | Ш        |            | _        | _        | 78       |          |          | _        |          | _          |          |          |          |          | 1  |              | 128      |  | Ш        |          |           | _        |          |           | <u> </u>   | L        |
| 2             |        |          | L  | L              |          |  |  |          | L        |            |          |          | 79       |          |          |          |          |            |          |          |          |          |    | L            | 129      | 上                                      |          |          |           |          |          |           |  | L        |
| 3             | Ю      |          |  |                |          |  | L.   |          |          |            |          |          | 80       |          |          |          |          |            |          |          |          |          |    |              | 130      |  | L        |          |           |          |          |           |  | L        |
| 3             | 11     |          |  |                |          |  |  |          |          |            |          |          | 81       |          |          |          |          |            |          |          |          |          | 7  |              | 131      |  |          |          |           |          |          |           | П  | Γ        |
| 3             | 2      |          |  |                |          |  | T  |          |          |            |          |          | 82       |          |          |          |          |            |          | $\neg$   |          |          | 1  |              | 132      | T-                                     |          |          |           |          |          |           | $\Box$   | Г        |
| 1 3           | з      |          |  |                | П        |  |  |          |          |            | _        |          | 83       |          |          |          | $\neg$   | 一          |          | 寸        |          | _        | 1  |              | 133      | t                                      | П        |          |           |          |          | $\neg$    | $\neg$   | $\vdash$ |
| 3             |        |          | $\vdash$   | 1              |          | $\vdash$   | $\vdash$   | П        |          |            |          |          | 84       | Н        | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | -        | 1  | $\vdash$     | 134      | T                                      | Н        |          | $\dashv$  |          | $\vdash$ | $\dashv$  | П  | $\vdash$ |
|               | 5      |          |  | -              | $\vdash$ | <del> </del>                                     | -  | $\vdash$ | $\vdash$ |            | $\dashv$ | $\vdash$ | 85       | Н        | $\dashv$ | -        | $\dashv$ | $\dashv$   | $\dashv$ | $\dashv$ | $\dashv$ | $\dashv$ | 1  | $\vdash$     | 135      | +                                      | $\vdash$ | Н        | $\dashv$  | $\dashv$ | H        | $\dashv$  | г  | $\vdash$ |
|               | 6      |          | -  |                | $\vdash$ | ⊢  | -  | Н        | Н        | Н          | ┥        | -        | 86       | ╁╌┤      |          |          |          |            |          |          | $\dashv$ | +        | 1  | -            | 136      | ╁                                      | Н        | Н        | $\vdash$  | -        | H        |           | -  | -        |
|               | _      | _        | H  | ⊢              | Н        | $\vdash$   | $\vdash$   | $\vdash$ | Н        | $\vdash$   |          | $\vdash$ |          | Н        |          |          | -        |            | -        | $\dashv$ | $\dashv$ | +        | -  | $\vdash$     |          | +                                      | Н        | Н        | $\vdash$  |          | H        | $\dashv$  |  | $\vdash$ |
| 3             |        |          | <u> </u>   | <u> </u>       | $\vdash$ | <u> </u>   | ╙  | $\vdash$ | L.,      |            |          | <u> </u> | 87       | Ш        | $\Box$   | _        |          | _          | _        | _        | _        | _        | 4  | $\vdash$     | 137      | ╄                                      | Ш        |          | $\square$ | _        |          | _         | $\vdash$   | $\vdash$ |
|               | 8      |          | L_   | L.             |          | <u> </u>   | <u> </u>   | <u> </u> |          | Ш          | $\Box$   | $\perp$  | 88       | Ш        |          | _        |          | _          |          |          |          |          | 4  | $\vdash$     | 138      | ــــــــــــــــــــــــــــــــــــــ | Ш        |          |           |          |          | _         | <u> </u>   | _        |
|               | 9      |          | L  |                |          |  | _  |          |          |            |          |          | 89       | Ш        |          |          |          |            |          |          |          |          | 1  | _            | 139      |  | Ш        |          |           |          |          |           | L  | L        |
| 4             | 0      |          |  |                |          |  |  |          |          | ΙĪ         |          |          | 90       |          |          |          | . [      | - 1        |          | - [      |          |          | 1  |              | 140      |  |          |          |           |          |          |           |  |          |
| 4             | п      |          | Г  |                |          |  |  |          |          | П          |          |          | 91       | П        |          |          |          |            |          | $\neg$   |          | $\neg$   | 1  |              | 141      | 1                                      | П        |          |           |          |          |           | <u> </u>   | Г        |
|               | 2      | _        | <del>                                     </del> | -              | $\vdash$ | -  | Н  | H        | H        | Н          | $\dashv$ | $\vdash$ | 92       | Н        |          | -        | -        |            | $\dashv$ | $\dashv$ | $\dashv$ | -        | 1  | -            | 142      | +-                                     | $\vdash$ | Н        | $\vdash$  |          | -        | $\vdash$  | <del>                                     </del> | $\vdash$ |
|               | 3      |          | -  | ╁              |          | $\vdash$   | -  | Н        | Н        | $\vdash$   | $\dashv$ | H        | 93       | Н        |          |          |          |            |          |          |          |          | +  | -            | 143      | ╁                                      | $\vdash$ | -        | -         |          |          |           | <del> </del>                                     | -        |
| -             | _      | -        | <u> </u>   | $\vdash$       | -        | ├  | ├  | Н        | Н        | Н          | $\dashv$ | -        | -        | $\vdash$ |          | -        | -        | $\dashv$   |          |          |          |          | 4  | $\vdash$     |          | ╁                                      | Н        | $\vdash$ | $\vdash$  |          | $\vdash$ | H         | $\vdash$   | -        |
|               | 4      | _        | L.,  | <u> </u>       | <u> </u> | <b> </b>   | <u> </u>   | Щ        | Ш        | Ш          | _        | $\vdash$ | 94       | Ш        |          | [        |          | _          |          |          |          | _        | 4  | ļ            | 144      | 4—                                     | $\vdash$ | إسا      |           |          | $\Box$   | $\square$ | $\vdash$   | <u> </u> |
|               | 5      | _        | _  | _              |          | <u> </u>   | $\vdash$   | Ш        | L.       | Ш          | _        |          | 95       | Ш        |          |          |          |            | _        | ļ        |          | $\perp$  | 1  | $\vdash$     | 145      | 1_                                     | Ш        |          | Ш         |          | Ь        | لب        | <b>L</b>   | L        |
|               | 6      | ٠        | <u> </u>   | <u> </u>       |          | _  | _  |          |          | $\sqcup$   |          | L        | 96       | Ш        |          |          |          |            |          |          | $\Box$   | $\perp$  |    | $\perp$      | 146      | 1_                                     |          |          |           |          |          |           | $\vdash$   | L        |
|               | 7      | ĿĪ       | L  | L              |          |  | 1  |          |          | [ ]        |          |          | 97       | LĪ       |          | _ 1      |          | _ 1        | _ 7      | _ Ţ      | _ T      |          |    | L            | 147      | $\Gamma_{-}$                           |          |          |           | _ ]      | LĪ       | _ ]       | L  | L        |
| 4             | 8      |          |  |                |          |  |  |          |          |            | $\neg$   |          | 98       |          |          |          |          |            |          | $\neg$   | $\neg$   |          | 1  |              | 148      | Т                                      |          |          |           |          |          |           | Г  | Г        |
| 4             | 9      | $\neg$   |  | Γ              | <u> </u> | Г  | T  |          |          | П          | $\neg$   |          | 99       | П        |          | $\neg$   |          | $\neg$     |          |          |          |          | ٦  |              | 149      | T                                      |          |          |           |          |          | $\Box$    | Г  | Г        |
| 5             | 0      |          | <u> </u>   | Т              | П        |  | T  |          |          | Н          | $\dashv$ |          | 100      |          |          | 一        | $\neg$   | $\dashv$   | _        |          | $\neg$   | $\top$   | 1  |              | 150      | 1                                      |          |          | H         |          |          | $\neg$    | Г  |          |
|               | -1     |          | Ь  | _              | -        | _  | -  | _        |          |            | —        | ٠        | 1.50     | 1        |          |          |          |            |          | 1        |          |          | _  | _            |          | -                                      | _        |          |           |          |          |           | -  |          |

If more than 150 claims or 10 actions staple additional sheet here

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